

In the United States Patent & Trademark Office

In re Application of:

Emmert-Buck, M. et al.

Examiner: Unassigned

Serial No.: Unassigned

Filed: Herewith (May 18, 2005)

Art Unit: Unassigned

Title: Method and Apparatus For Performing
Multiple Simultaneous Manipulations Of
Biomolecules In A Two-Dimensional Array

Atty Dkt. No.: 3514.116

**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §§ 1.197(b)(1) AND 1.56**Assistant Commissioner of Patents
Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §§ 1.97 and 1.56, Applicants herewith submit the following Information Disclosure Statement. Copies of all cited documents (other than US patent documents) are enclosed.

This Information Disclosure Statement is being submitted within 3 months of the filing date of the present application. Accordingly, no fee is required for its consideration and for the consideration of the cited documents. The cited documents are:

Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document
	Patent Number	MM-DD-YYYY	
AA1	US- 6,221,600	04-24-2001	McLeod <i>et al.</i>
AB1	US- 6,303,308	10-16-2001	Halle <i>et al.</i>
AC1	US- 6,461,814	10-08-2002	Spinella
AD1	US- 2004/0053326	03-18-2004	Emmert-Buck <i>et al.</i>
AE1	US- 2004/0081987	04-29-2004	Knezevic <i>et al.</i>
AF1	US- 2004/0081979	04-29-2004	Knezevic <i>et al.</i>
AA2	US- 20050064486	2005-03-24	Ishiguro <i>et al.</i>
AB2	US- 20030027142	2003-02-06	Ishiguro <i>et al.</i>
AM1	EP 1174521	01-23-2002	Tosoh Corporation
AN1	WO 9832847	01-22-1998	Velculescu <i>et al.</i>
AO1	WO 0077214	12-21-2000	Velculescu <i>et al.</i>
AP1	WO 0138577	05-31-2001	Velculescu <i>et al.</i>
AM2	WO 0210449	02-07-2002	Shoshan <i>et al.</i>
AN2	WO 0246465	06-13-2002	White <i>et al.</i>
AO2	WO 0268466	09-06-2002	White <i>et al.</i>

PTO/SB/08a / PTO/SB/08b				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	To Be Assigned 20/535521
				Filing Date	Herewith (May 18, 2005)
				First Named Inventor	Emmert-Buck, Michael
				Art Unit	To Be Assigned
				Examiner Name	To Be Assigned
Sheet	1	of	2	Attorney Docket Number	03514-1116

U.S. PATENT DOCUMENTS

Examiner's Initial	Cite No.	Document Number Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA1	US 6,221,600	04-24-2001	McLeod <i>et al.</i>	
	AB1	US 6,303,308	10-16-2001	Halle <i>et al.</i>	
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	AF1	US 2004/0081979	04-29-2004	Knezevic <i>et al.</i>	

FOREIGN PATENT DOCUMENTS

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	AM1	EP 1174521	01-23-2002	Tosoh Corporation		
	AN1	WO 9832847	01-22-1998	Velculescu <i>et al.</i>		
	AO1	WO 0077214	12-21-2000	Velculescu <i>et al.</i>		
	AP1	WO 0138577	05-31-2001	Velculescu <i>et al.</i>		

NON-PATENT LITERATURE DOCUMENTS

Examiner's Initial	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city, and/or country where published	T
	AR1	Aldaz, C.M. <i>et al.</i> (2002) "SERIAL ANALYSIS OF GENE EXPRESSION IN NORMAL P53 NULL MAMMARY EPITHELIUM," <i>Oncogene</i> 21:6366-6376	
	AS1	Anisimov, S. <i>et al.</i> (2002) "A QUANTITATIVE AND VALIDATED SAGE TRANSCRIPTOME REFERENCE FOR ADULT MOUSE HEART," <i>Genomics</i> 80:213-222	
	AT1	Bono, H. <i>et al.</i> (2002) "FUNCTIONAL TRANSCRIPTOMES: COMPARATIVE ANALYSIS OF BIOLOGICAL PATHWAYS AND PROCESSES IN EUKARYOTES TO INFER GENETIC NETWORKS AMONG TRANSCRIPTS," <i>Curr Opin Struct Biol.</i> 12:355-361	
	AU1	Curtis, R.K. <i>et al.</i> (2002) "CONTROL ANALYSIS OF DNA MICROARRAY EXPRESSION DATA," <i>Molec. Biol. Rep.</i> 29:67-71	
	AV1	Devaux, F. (2001) "TRANSCRIPTOMES, TRANSCRIPTION ACTIVATORS AND MICROARRAYS," <i>FEBS Lett.</i> 498:140-4	
	AW1	Evans, S.J. <i>et al.</i> (2002) "EVALUATION OF AFFYMETRIX GENE CHIP SENSITIVITY IN RAT HIPPOCAMPAL TISSUE USING SAGE ANALYSIS. SERIAL ANALYSIS OF GENE EXPRESSION," <i>Eur. J. Neurosci.</i> 16:409-13	
	AX1	Klein, C.A. <i>et al.</i> (2002) "COMBINED TRANSCRIPTOME AND GENOME ANALYSIS OF SINGLE MICROMETASTATIC CELLS," <i>Nat. Biotechnol.</i> 20:387-92	
	AY1	Li, S. <i>et al.</i> (2001) "COMPARATIVE GENOME-SCALE ANALYSIS OF GENE EXPRESSION PROFILES IN T CELL LYMPHOMA CELLS DURING MALIGNANT PROGRESSION USING A COMPLEMENTARY DNA MICROARRAY," <i>Amer. J. Pathol.</i> 158:1231-1237	

Examiner Signature		Date Considered	
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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	AA2	US 20050064486	2005-03-24	Ishiguro <i>et al.</i>	
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	AM2	WO 0210449	02-07-2002	Shoshan <i>et al.</i>		
	AN2	WO 0246465	06-13-2002	White <i>et al.</i>		
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	AP2					

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	AR2	Piper, M.D.W. <i>et al.</i> (2002) "REPRODUCIBILITY OF OLIGONUCLEOTIDE MICROARRAY TRANSCRIPTOME ANALYSES: AN INTERLABORATORY COMPARISON USING CHEMOSTAT CULTURES OF SACCHAROMYCES CEREVISIAE," J. Biol. Chem. 277:37001-37008	
	AS2	Piquemal, D <i>et al.</i> (2002) "TRANSCRIPTOME ANALYSIS OF MONOCYTIC LEUKEMIA CELL DIFFERENTIATION," Genomics. 2002 Sep;80(3):361-71	
	AT2	Saha, S. <i>et al.</i> (2002) "USING THE TRANSCRIPTOME TO ANNOTATE THE GENOME," Nat. Biotechnol. 20:508-512	
	AU2	Su, A.I. <i>et al.</i> (2002) "LARGE-SCALE ANALYSIS OF THE HUMAN AND MOUSE TRANSCRIPTOMES," Proc. Natl. Acad. Sci U S A. 99:4465-70	
	AV2	Swaroop, A. <i>et al.</i> "TRANSCRIPTOME ANALYSIS OF THE RETINA," Genome Biol. 2002 Jul 30;3(8):REVIEWS1022. Epub 2002 Jul 30	
	AW2		
	AX2		
	AY2		
	AZ2		

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Filed: Herewith

Information Disclosure Statement

Pursuant To 37 Cfr §§ 1.197(B)(1) And 1.56

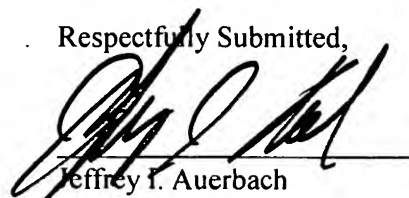
Page 2

- AR1 Aldaz, C.M. *et al.*, (2002) "SERIAL ANALYSIS OF GENE EXPRESSION IN NORMAL P53 NULL MAMMARY EPITHELIUM," *Oncogene* 21:6366-6376
- AS1 Anisimov, S. *et al.* (2002) "A QUANTITATIVE AND VALIDATED SAGE TRANSCRIPTOME REFERENCE FOR ADULT MOUSE HEART," *Genomics* 80:213-222
- AT1 Bono, H. *et al.* (2002) "FUNCTIONAL TRANSCRIPTOMES: COMPARATIVE ANALYSIS OF BIOLOGICAL PATHWAYS AND PROCESSES IN EUKARYOTES TO INFER GENETIC NETWORKS AMONG TRANSCRIPTS," *Curr Opin Struct Biol.* 12:355-361
- AU1 Curtis, R.K. *et al.* (2002) "CONTROL ANALYSIS OF DNA MICROARRAY EXPRESSION DATA," *Molec. Biol. Rep.* 29:67-71
- AV1 Devaux, F. (2001) "TRANSCRIPTOMES, TRANSCRIPTION ACTIVATORS AND MICROARRAYS," *FEBS Lett.* 498:140-4
- AW1 Evans, S.J. *et al.* (2002) "EVALUATION OF AFFYMETRIX GENE CHIP SENSITIVITY IN RAT HIPPOCAMPAL TISSUE USING SAGE ANALYSIS. SERIAL ANALYSIS OF GENE EXPRESSION," *Eur. J. Neurosci.* 16:409-13
- AX1 Klein, C.A. *et al.* (2002) "COMBINED TRANSCRIPTOME AND GENOME ANALYSIS OF SINGLE MICROMETASTATIC CELLS," *Nat. Biotechnol.* 20:387-92
- AY1 Li, S. *et al.* (2001) "COMPARATIVE GENOME-SCALE ANALYSIS OF GENE EXPRESSION PROFILES IN T CELL LYMPHOMA CELLS DURING MALIGNANT PROGRESSION USING A COMPLEMENTARY DNA MICROARRAY," *Amer. J. Pathol.* 158:1231-1237
- AR2 Piper, M.D.W. *et al.* (2002) "REPRODUCIBILITY OF OLIGONUCLEOTIDE MICROARRAY TRANSCRIPTOME ANALYSES: AN INTERLABORATORY COMPARISON USING CHEMOSTAT CULTURES OF SACCHAROMYCES CEREVISIAE," *J. Biol. Chem.* 277:37001-37008
- AS2 Piquemal, D *et al.* (2002) "TRANSCRIPTOME ANALYSIS OF MONOCYTIC LEUKEMIA CELL DIFFERENTIATION," *Genomics.* 2002 Sep;80(3):361-71
- AT2 Saha, S. *et al.* (2002) "USING THE TRANSCRIPTOME TO ANNOTATE THE GENOME," *Nat. Biotechnol.* 20:508-512
- AU2 Su, A.I. *et al.* (2002) "LARGE-SCALE ANALYSIS OF THE HUMAN AND MOUSE TRANSCRIPTOMES," *Proc. Natl. Acad. Sci U S A.* 99:4465-70
- AV2 Swaroop, A. *et al.* "TRANSCRIPTOME ANALYSIS OF THE RETINA," *Genome Biol.* 2002 Jul 30;3(8):REVIEWS1022. Epub 2002 Jul 30

The Examiner is requested to contact the undersigned immediately in the event that any cited document may be unavailable in order that a replacement copy can be provided.

Date: 5/18/05
 Liniak, Berenato & White, LLC
 6550 Rock Spring Drive, Suite 240
 Bethesda, MD 20817
 Tel: (301) 896-0600
 Fax (301) 896-0607

Respectfully Submitted,


 Jeffrey I. Auerbach
 Reg. No. 32,680
 Attorney for Assignee